FIG. 1

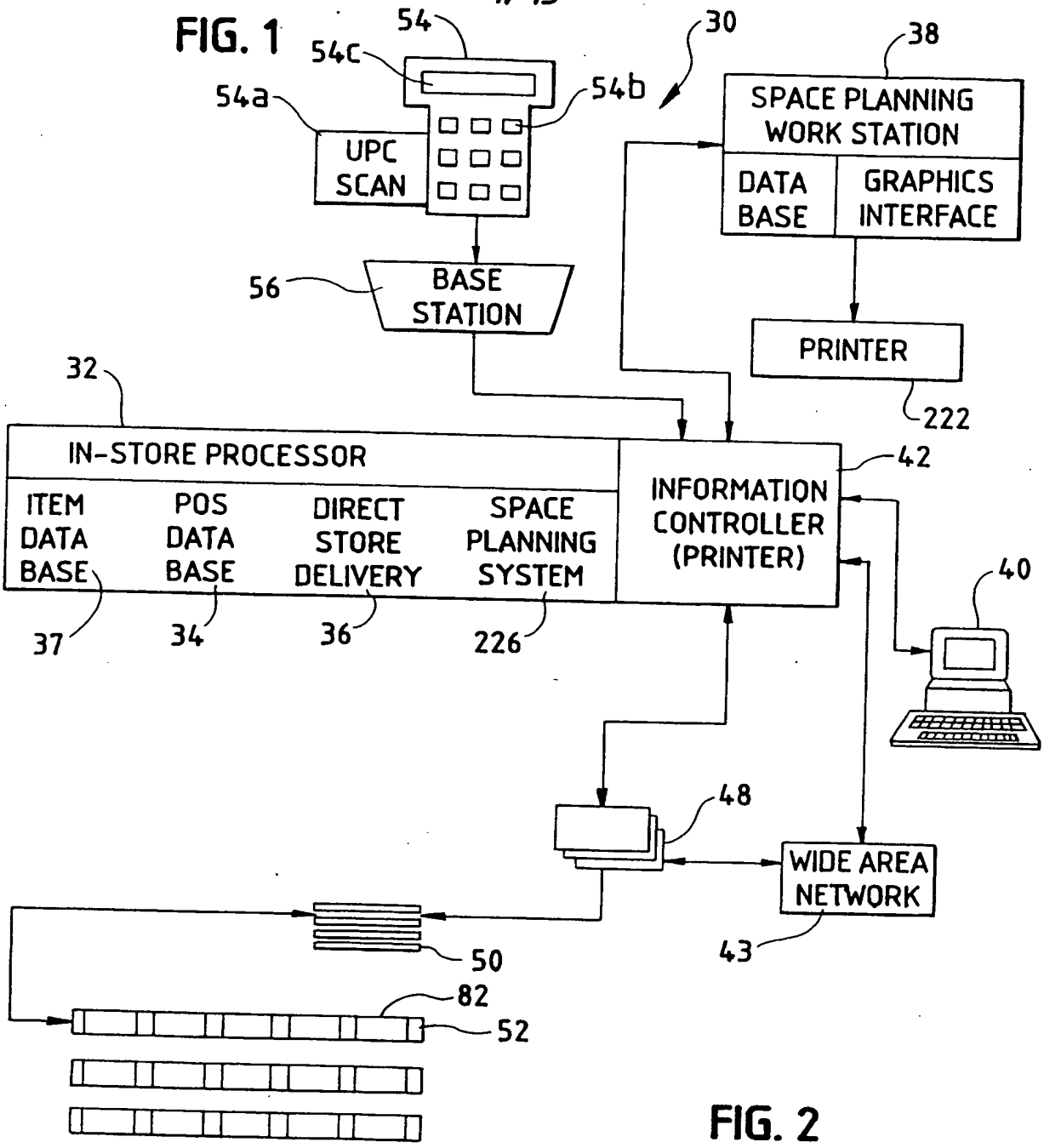
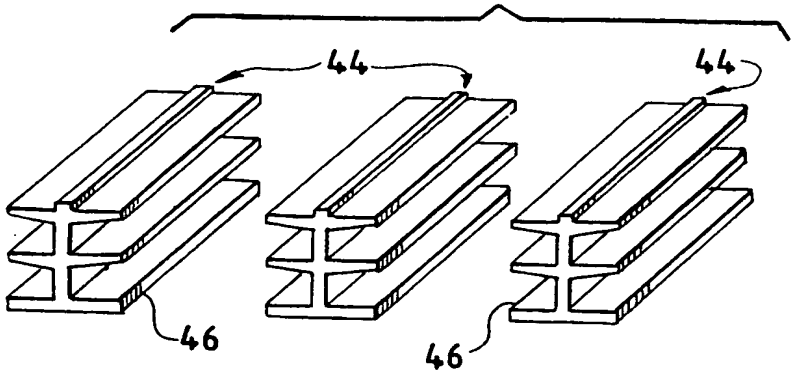

54
54c
54a
54b
30
38
UPC SCAN
SPACE PLANNING WORK STATION
DATA BASE
GRAPHICS INTERFACE
56
BASE STATION
PRINTER
222
32
IN-STORE PROCESSOR
ITEM DATA BASE
POS DATA BASE
DIRECT STORE DELIVERY
SPACE PLANNING SYSTEM
37
34
36
226
INFORMATION CONTROLLER (PRINTER)
42
40
48
WIDE AREA NETWORK
43
50
82
52

FIG. 2


44
44
46
46

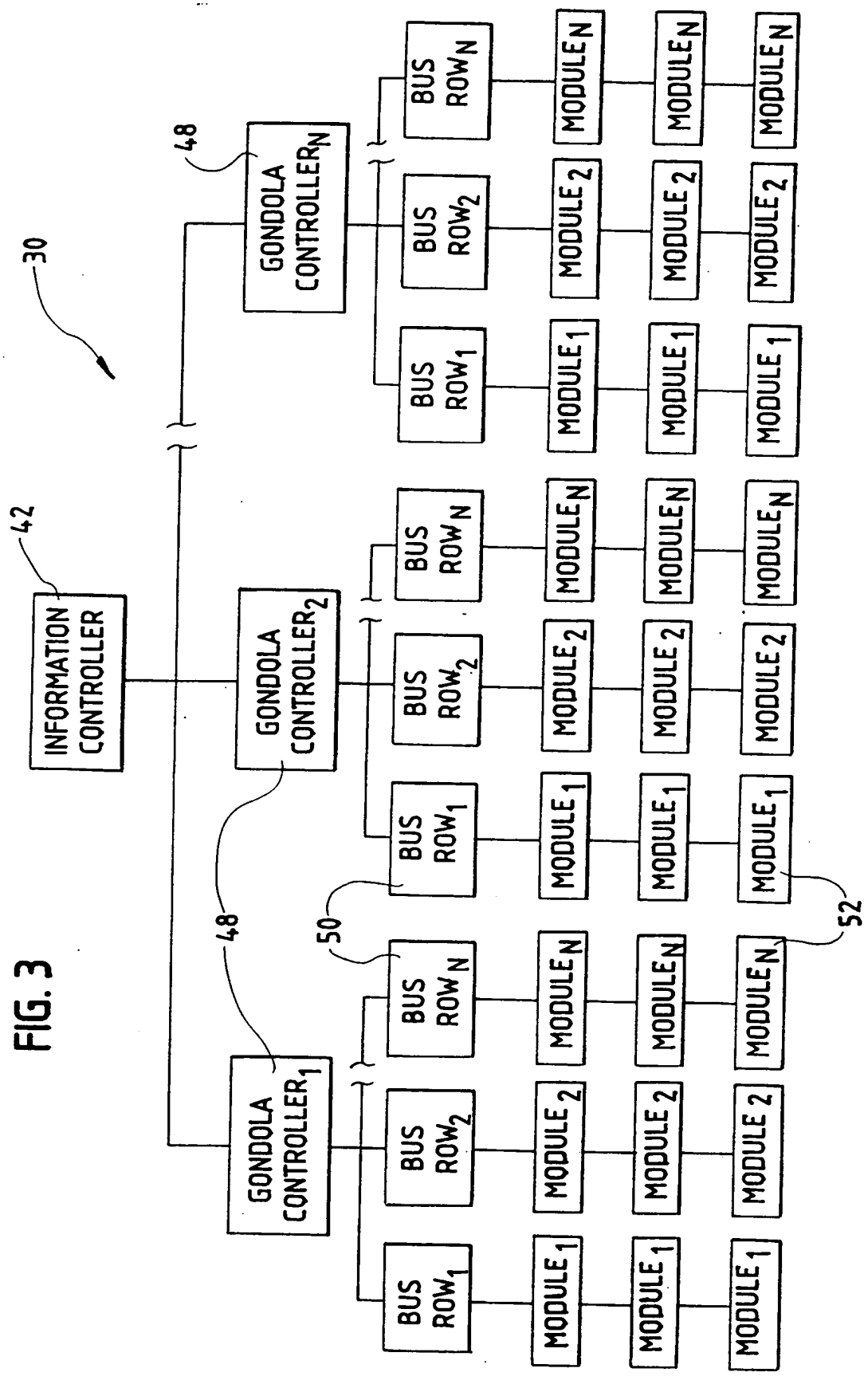

30
42
INFORMATION CONTROLLER
GONDOLA CONTROLLER$_1$
GONDOLA CONTROLLER$_2$
GONDOLA CONTROLLER$_N$
48
48
BUS ROW$_1$
BUS ROW$_2$
BUS ROW$_N$
MODULE$_1$
MODULE$_2$
MODULE$_N$
50
52

FIG. 3

FIG. 4

50
138
142
144
140

FIG. 5

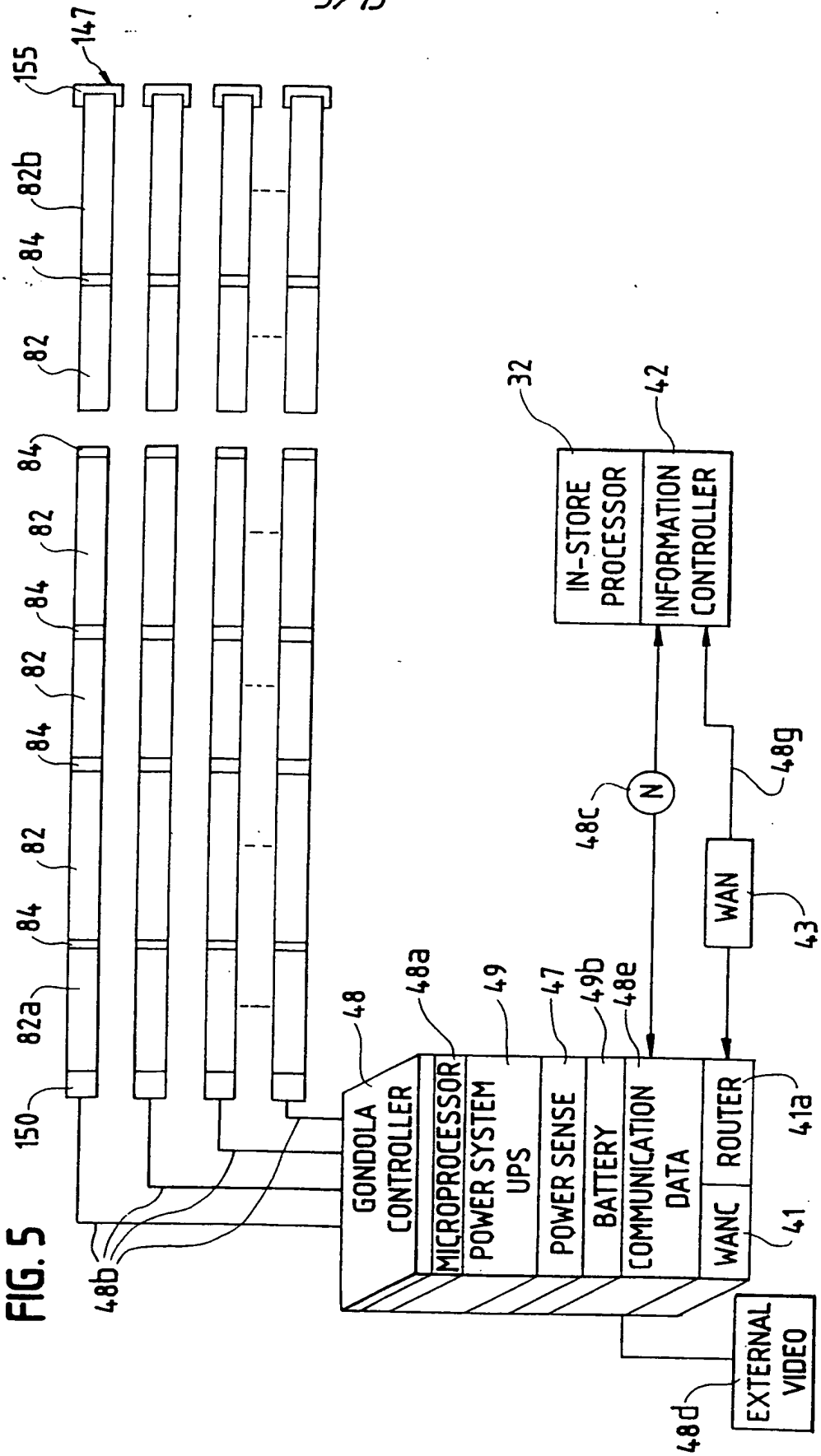
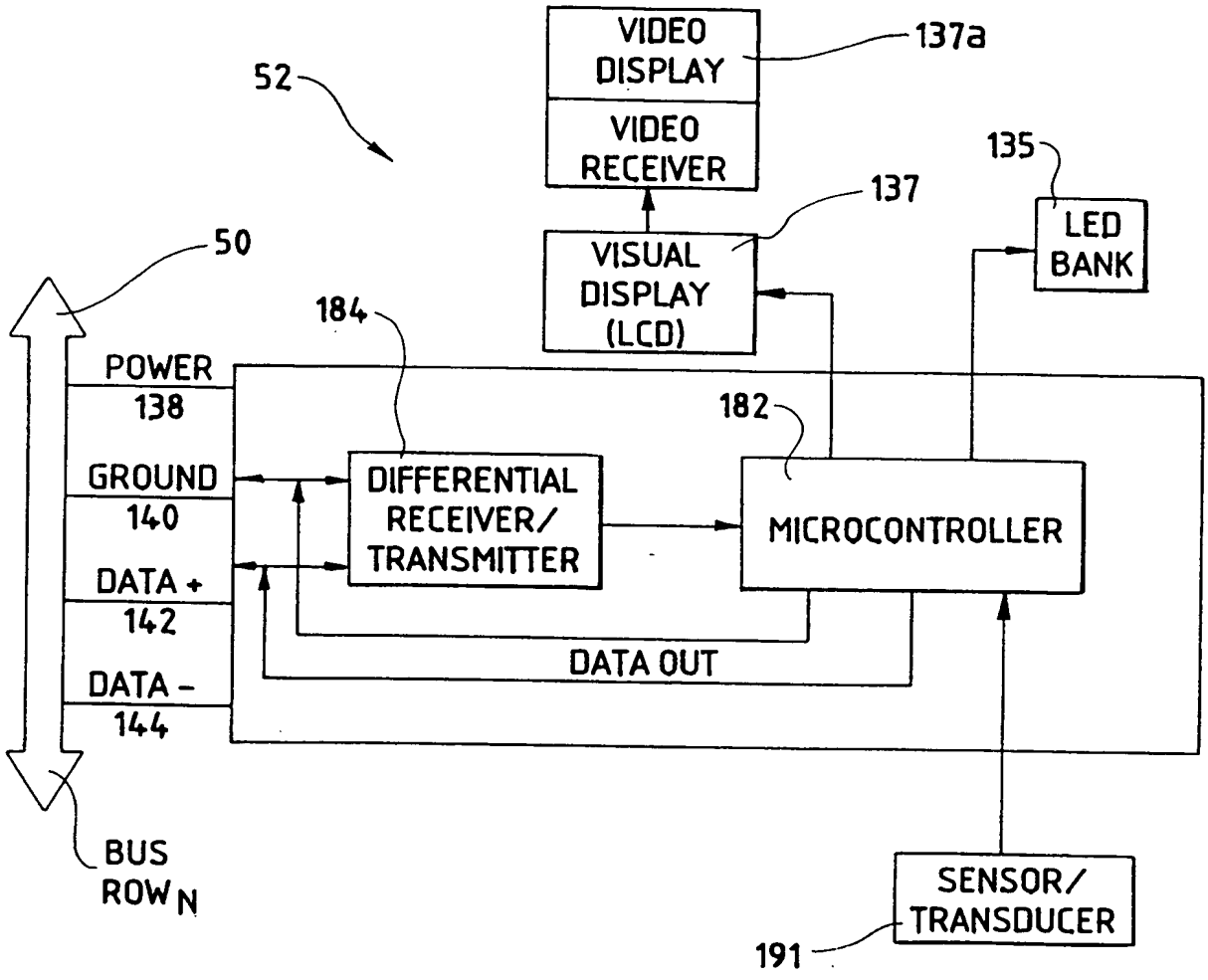

147
155
82b
84
82
84
82
84
82
84
82
84
82
82a
150
48b
48
48a
49
47
49b
48e
GONDOLA CONTROLLER
MICROPROCESSOR
POWER SYSTEM UPS
POWER SENSE
BATTERY
COMMUNICATION DATA
ROUTER
WANC
41
41a
48c
N
48g
WAN
43
32
42
IN-STORE PROCESSOR
INFORMATION CONTROLLER
EXTERNAL VIDEO
48d

FIG. 6


VIDEO DISPLAY
137a
52
VIDEO RECEIVER
135
137
LED BANK
50
VISUAL DISPLAY (LCD)
184
POWER
138
182
GROUND
140
DIFFERENTIAL RECEIVER/ TRANSMITTER
MICROCONTROLLER
DATA +
142
DATA OUT
DATA -
144
BUS
ROW N
SENSOR/ TRANSDUCER
191

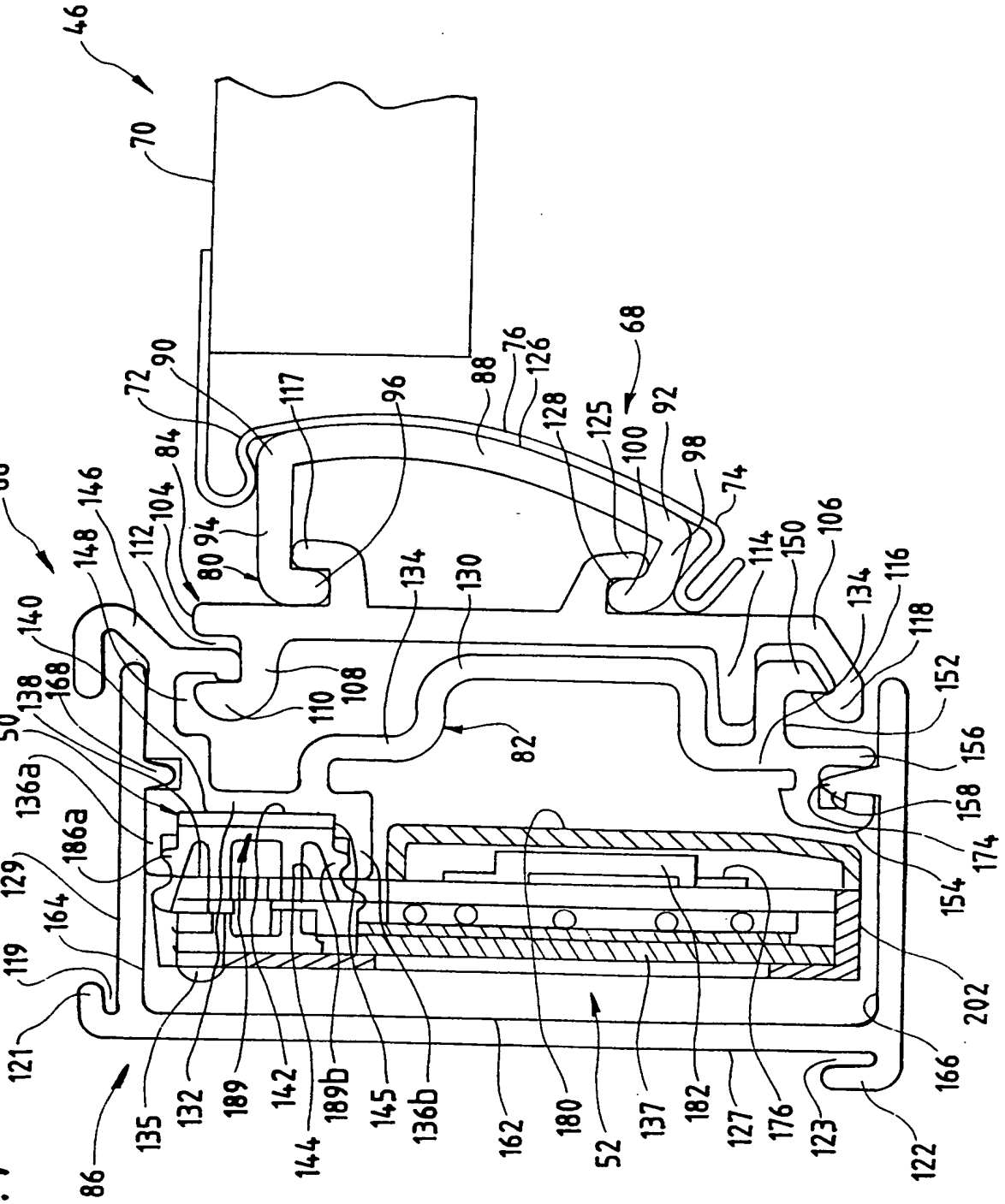

46
70
72
90
117
96
88
76
126
68
92
125
128
100
98
74
66
84
104
146
148
112
80
94
114
150
106
134
130
116
118
140
168
138
50
136a
186a
129
164
119
121
110
108
82
152
156
158
174
154
202
166
86
135
132
189
142
189b
144
145
136b
162
180
52
137
182
127
176
123
122

FIG. 7

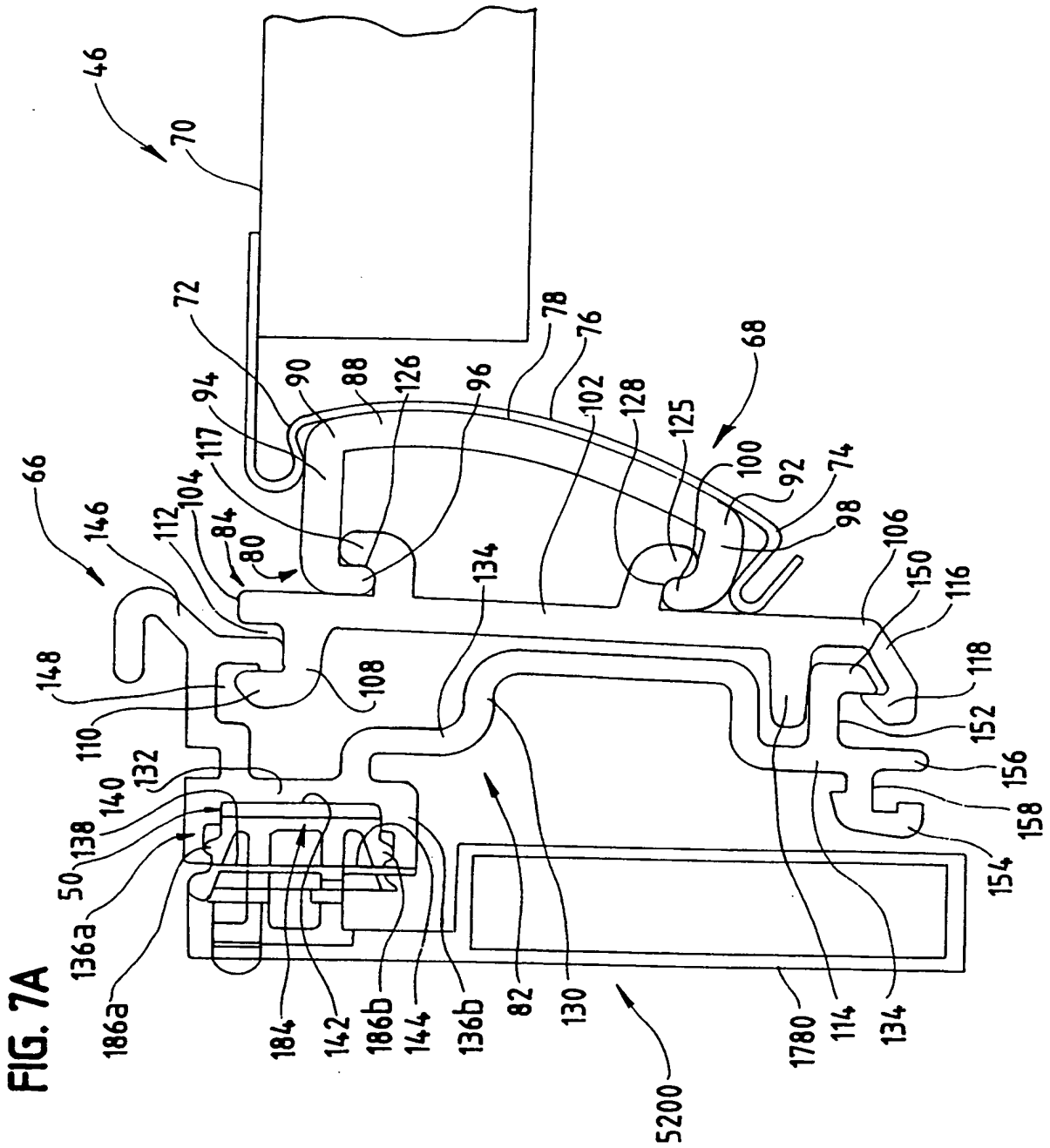

46
70
72
78
76
68
90
88
126
96
102
128
125
94
117
104
112
84
80
66
146
100
92
74
98
106
150
116
134
148
108
110
132
140
138
50
136a
186a
184
142
186b
144
136b
82
130
5200
1780
114
134
118
152
156
158
154

FIG. 7A

FIG. 8A

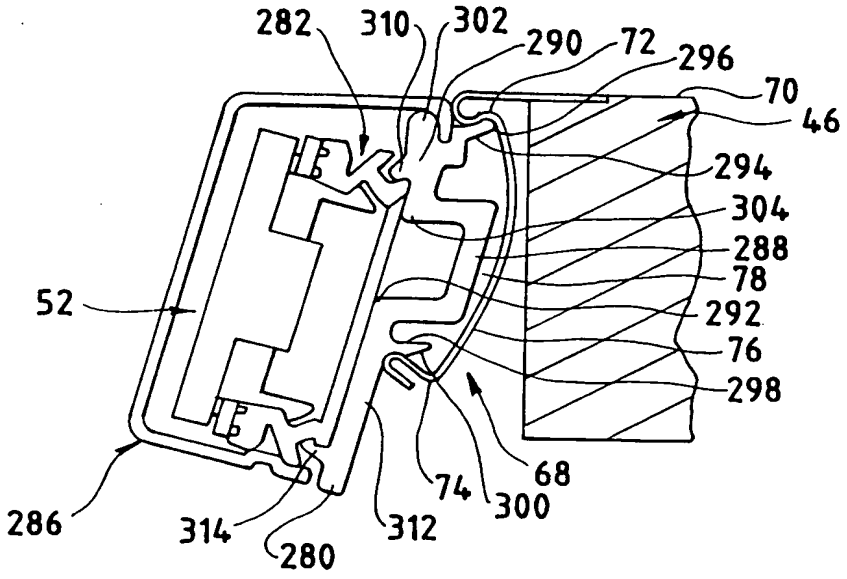
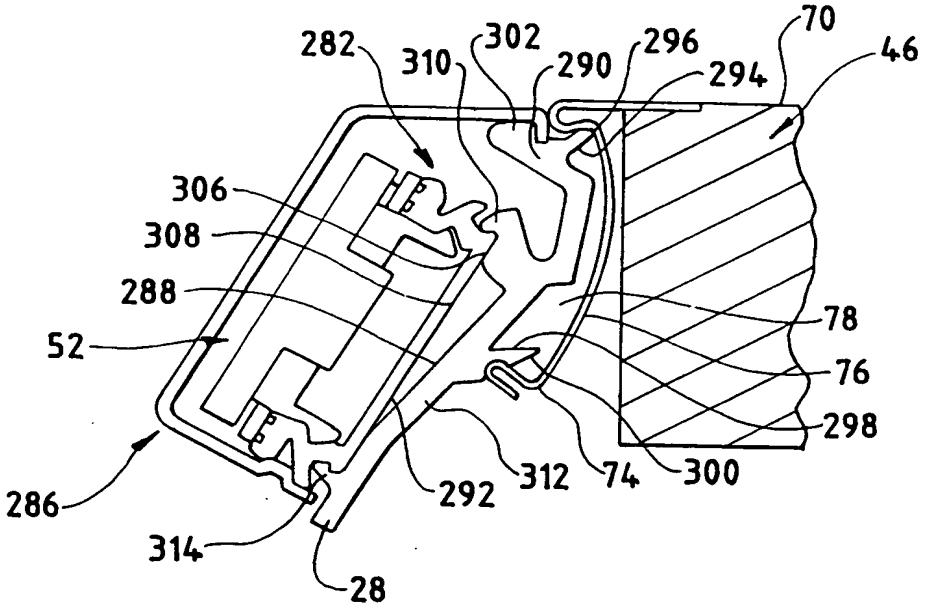

282
310
302
290
72
296
70
46
294
304
288
78
292
76
298
52
286
314
280
312
74
300
68

FIG. 8B


282
310
302
290
296
294
70
46
306
308
288
52
78
76
298
286
314
28
292
312
74
300

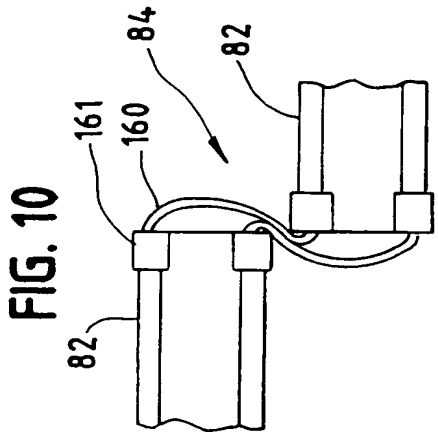


FIG. 10

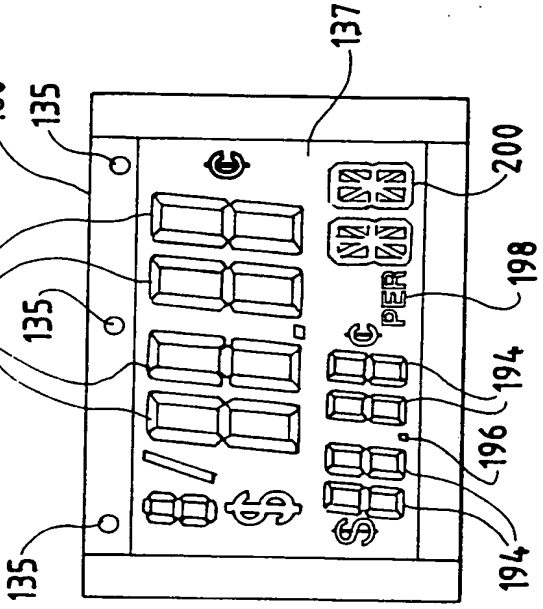


FIG. 11

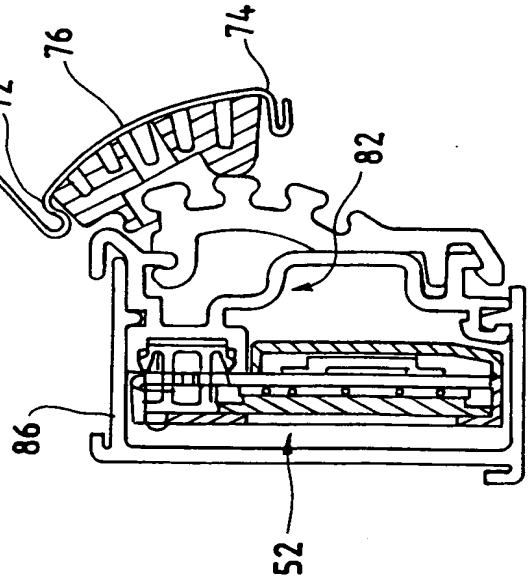


FIG. 9

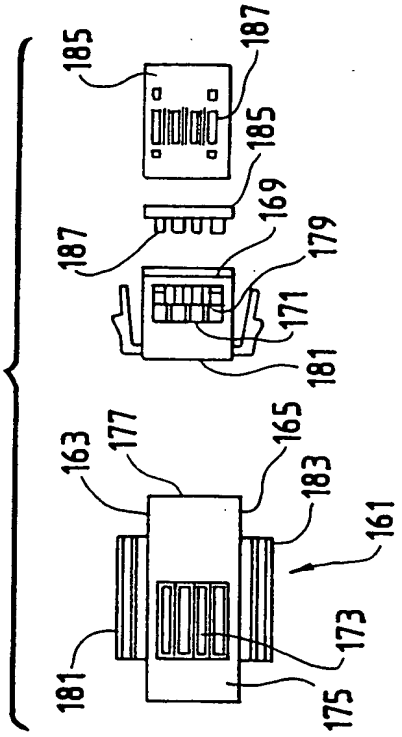


FIG. 10A

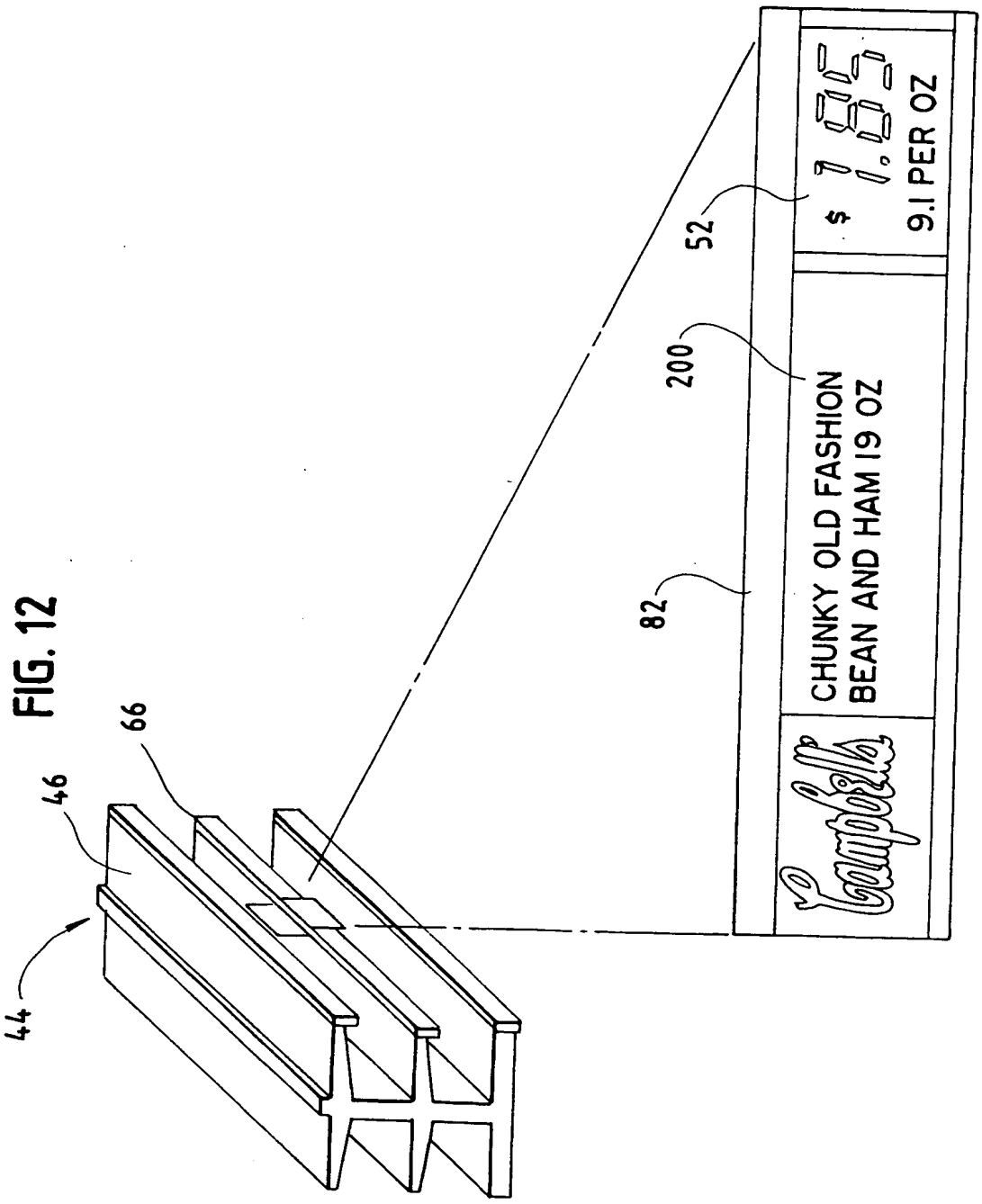

52
200
82
$ 1.
9.1 PER OZ
CHUNKY OLD FASHION
BEAN AND HAM 19 OZ
Campbell's
66
46
44

FIG. 12

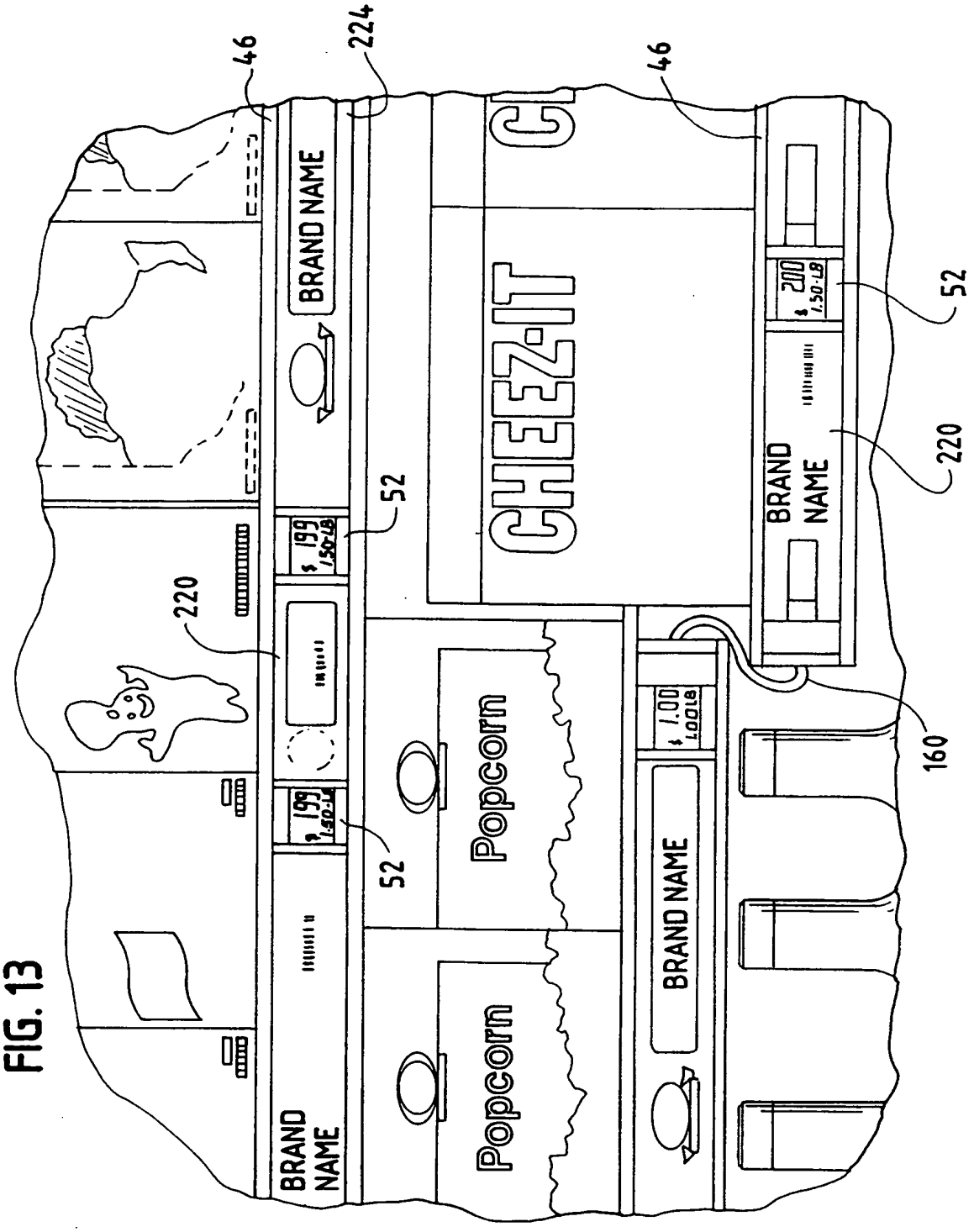

46
224
46
BRAND NAME
CHEEZ-IT
52
220
52
220
BRAND NAME
52
160
Popcorn
BRAND NAME
Popcorn
BRAND NAME

FIG. 13

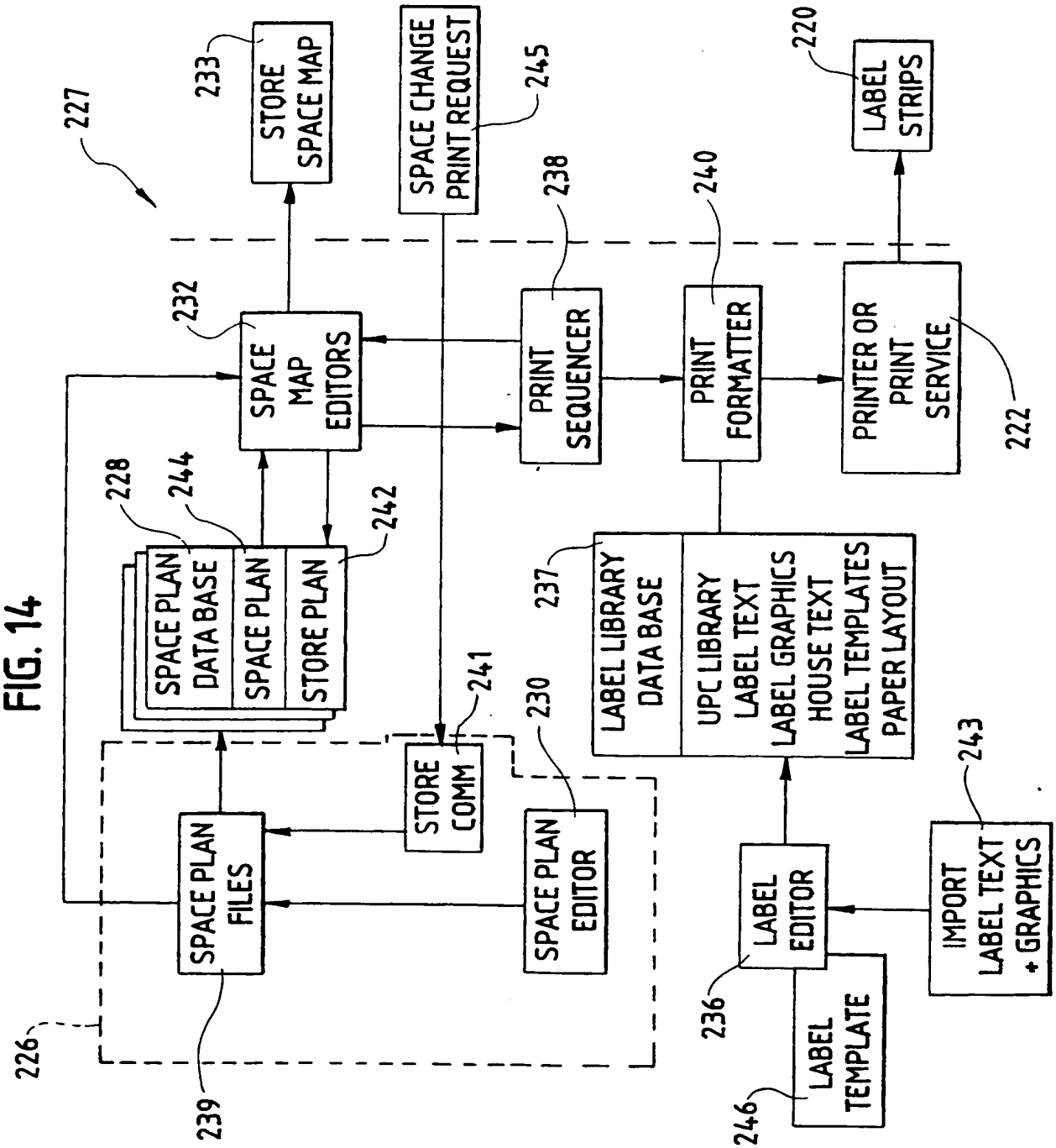

227
233
STORE SPACE MAP
SPACE CHANGE PRINT REQUEST
245
220
LABEL STRIPS
238
240
232
SPACE MAP EDITORS
PRINT SEQUENCER
PRINT FORMATTER
PRINTER OR PRINT SERVICE
222
228
244
242
SPACE PLAN DATA BASE
SPACE PLAN
STORE PLAN
237
LABEL LIBRARY DATA BASE
UPC LIBRARY
LABEL TEXT
LABEL GRAPHICS
HOUSE TEXT
LABEL TEMPLATES
PAPER LAYOUT
241
230
STORE COMM
243
SPACE PLAN FILES
SPACE PLAN EDITOR
LABEL EDITOR
IMPORT LABEL TEXT + GRAPHICS
236
LABEL TEMPLATE
246
239
226

FIG. 14

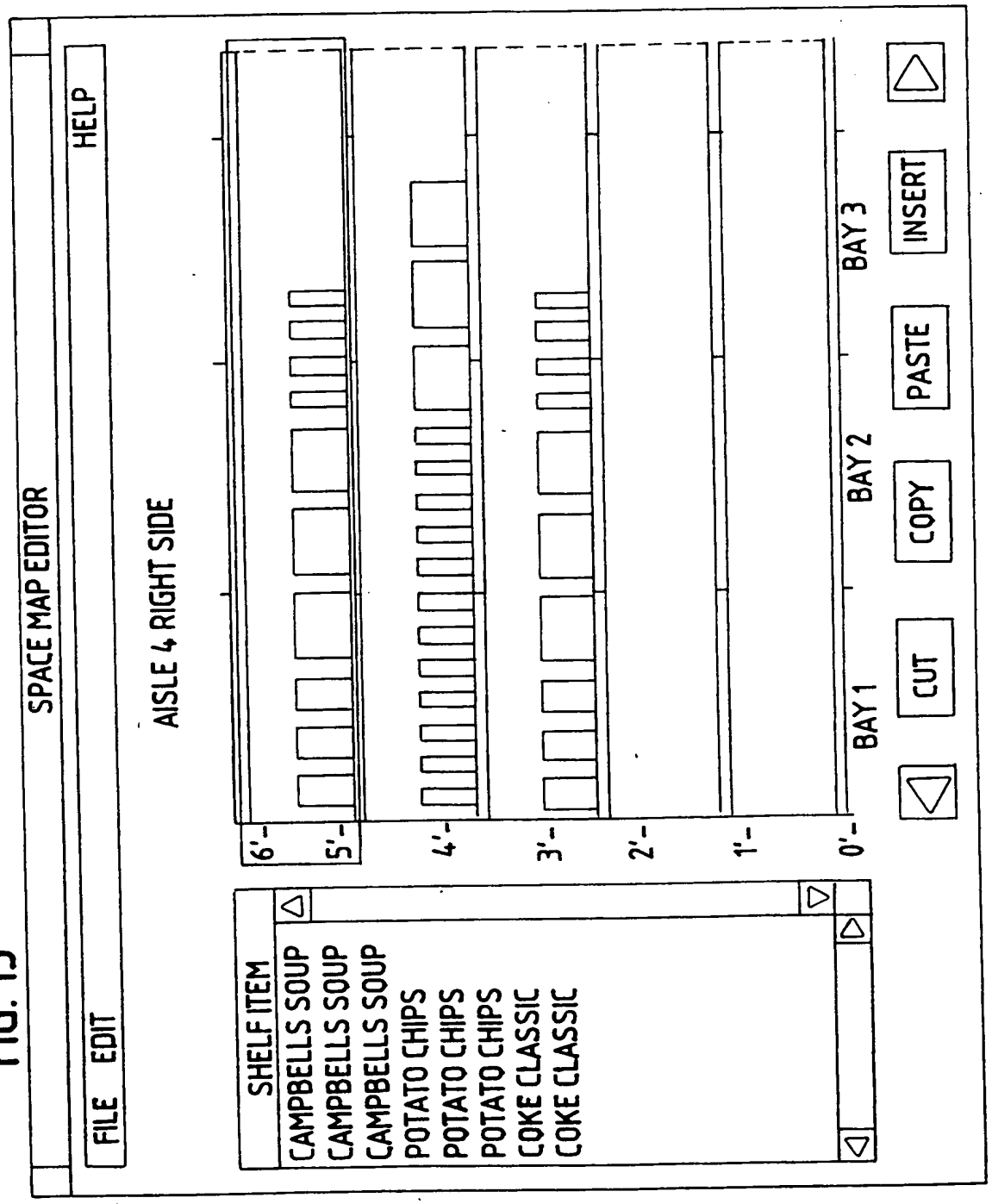

SPACE MAP EDITOR
FILE EDIT
HELP
AISLE 4 RIGHT SIDE
SHELF ITEM
CAMPBELLS SOUP
CAMPBELLS SOUP
CAMPBELLS SOUP
POTATO CHIPS
POTATO CHIPS
POTATO CHIPS
COKE CLASSIC
COKE CLASSIC
6'-
5'-
4'-
3'-
2'-
1'-
0'-
BAY 1
BAY 2
BAY 3
CUT
COPY
PASTE
INSERT

FIG. 15

FIG. 16

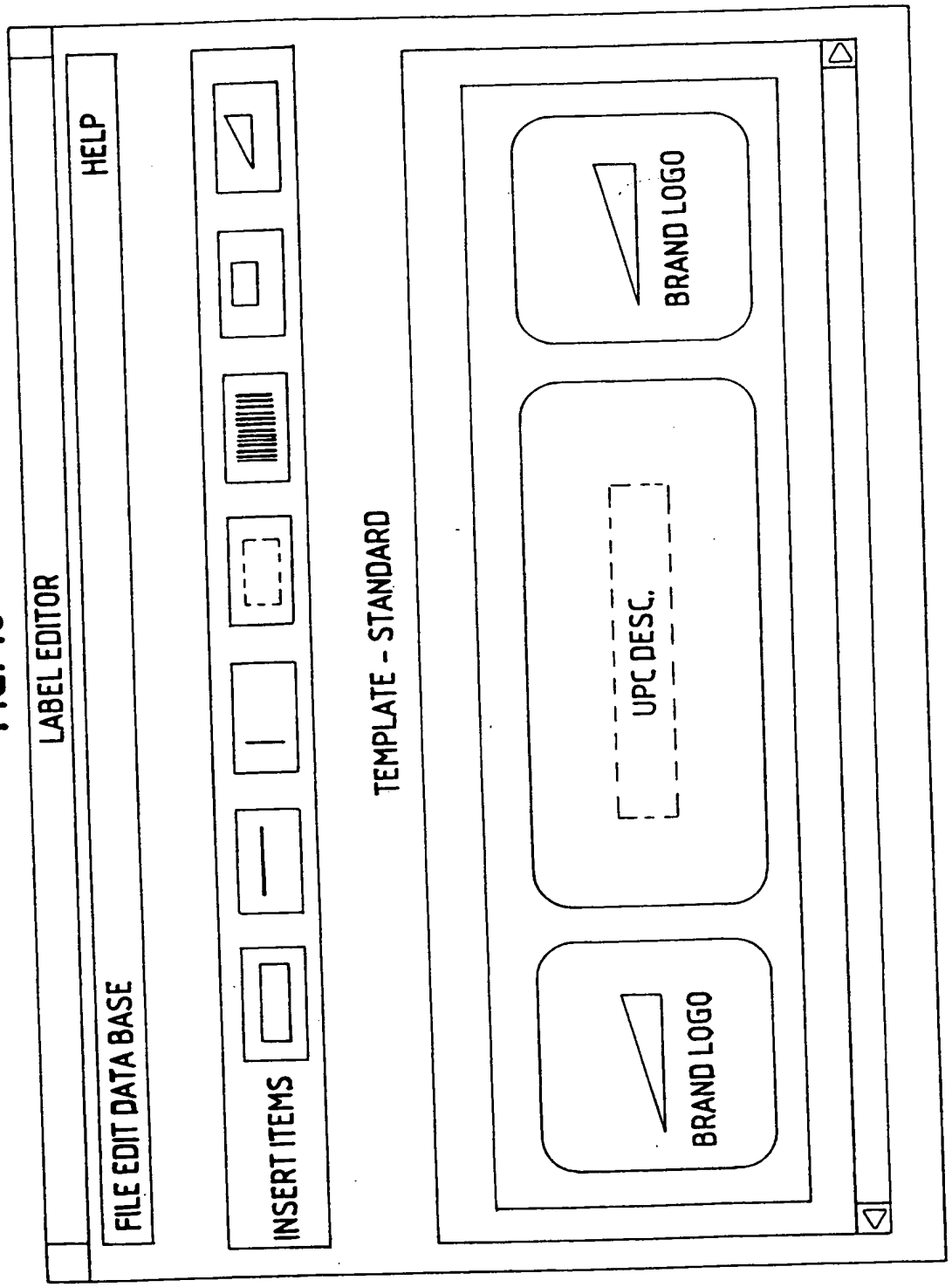

LABEL EDITOR
HELP
FILE EDIT DATA BASE
INSERT ITEMS
TEMPLATE - STANDARD
BRAND LOGO
UPC DESC.
BRAND LOGO

FIG. 17A

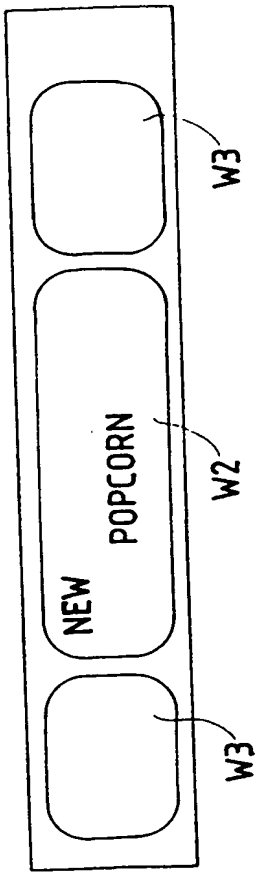
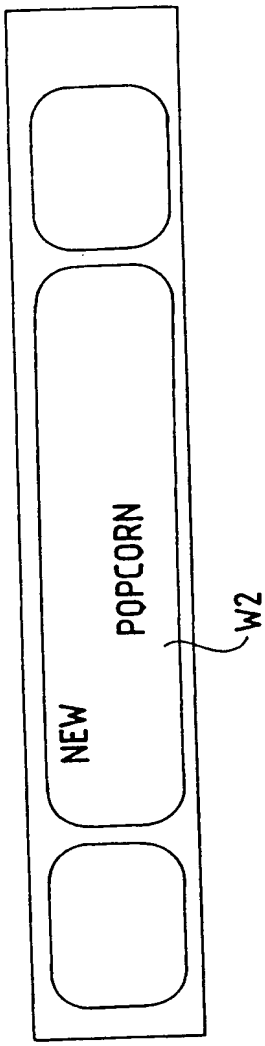


FIG. 17B



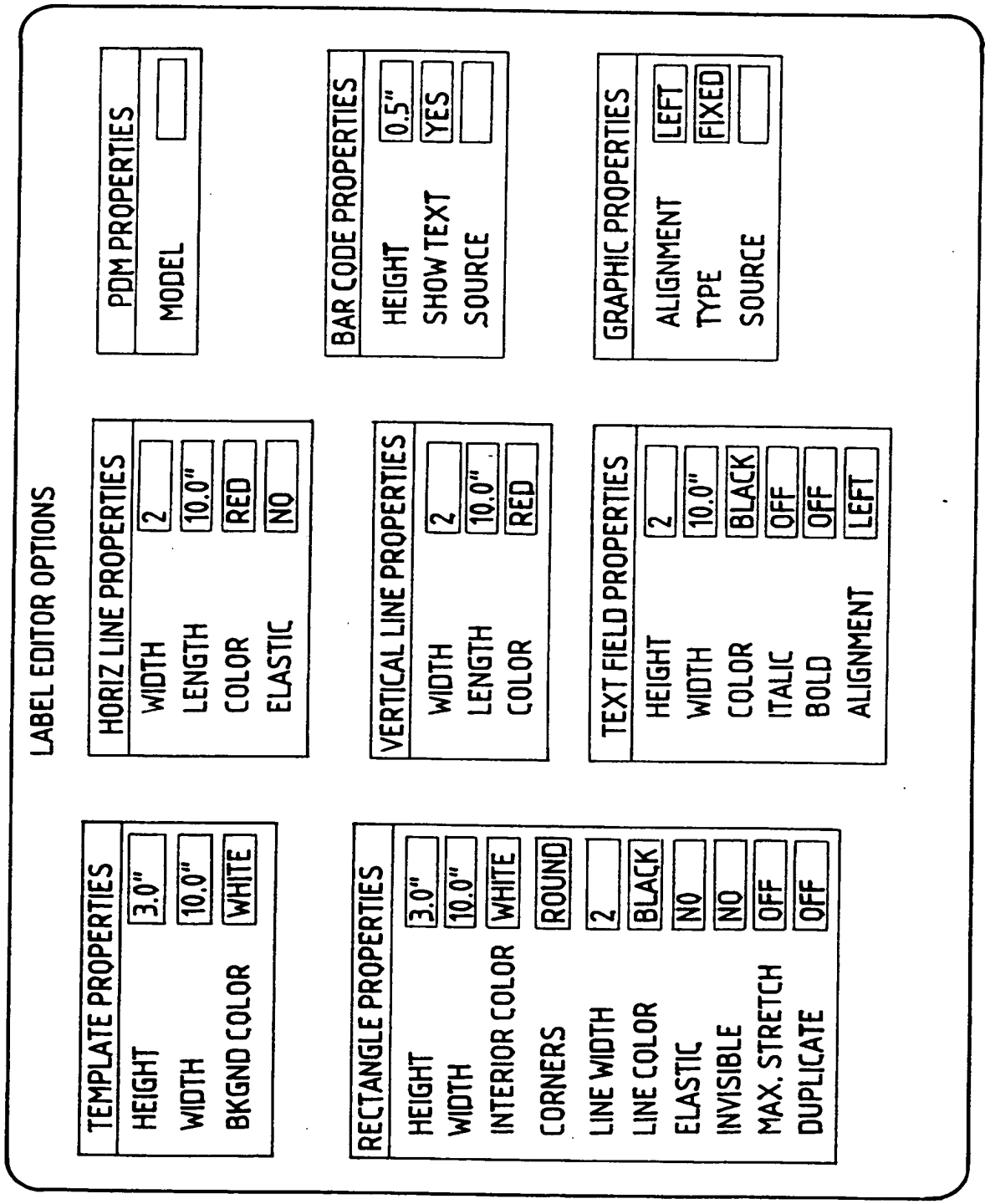

LABEL EDITOR OPTIONS
TEMPLATE PROPERTIES
HEIGHT 3.0"
WIDTH 10.0"
BKGND COLOR WHITE
HORIZ LINE PROPERTIES
WIDTH 2
LENGTH 10.0"
COLOR RED
ELASTIC NO
PDM PROPERTIES
MODEL
BAR CODE PROPERTIES
HEIGHT 0.5"
SHOW TEXT YES
SOURCE
GRAPHIC PROPERTIES
ALIGNMENT LEFT
TYPE FIXED
SOURCE
RECTANGLE PROPERTIES
HEIGHT 3.0"
WIDTH 10.0"
INTERIOR COLOR WHITE
CORNERS ROUND
LINE WIDTH 2
LINE COLOR BLACK
ELASTIC NO
INVISIBLE NO
MAX. STRETCH OFF
DUPLICATE OFF
VERTICAL LINE PROPERTIES
WIDTH 2
LENGTH 10.0"
COLOR RED
TEXT FIELD PROPERTIES
HEIGHT 2
WIDTH 10.0"
COLOR BLACK
ITALIC OFF
BOLD OFF
ALIGNMENT LEFT

FIG. 18